KUCHIBHOTLA ET AL.
"Wireless Radio Network Resource Sharing
Among Core Networks And Methods"
Atty. Docket No. CS23738RL

Appl. No. 10/680,522
Confirm. No. 5055
Examiner C. Appiah
Art Unit 2686

In The Claims:

1. (Original) A method in a communication device, the method comprising:

receiving network system information,

the network system information including information about multiple core networks sharing a common access network without identifying the multiple core networks;

attempting to connect to a core network based on the information about multiple core networks sharing the common access network.

2. (Original) The method of Claim 1,

automatically selecting the core network to which the communication device attempts to connect among the multiple core networks sharing the common access network.

3. (Original) The method of Claim 1,

presenting the multiple core networks for manual selection at the communication device,

changing the order of presentation of the multiple core networks.

4. (Original) The method of Claim 1, attempting to connect to the core network identified by a network entity.

5. (Previously Presented) The method of Claim 1,

the information about the multiple core networks sharing the common access network includes information indicating how many multiple core networks share the common access network,

selecting the core network to which the communication device attempts to connect by selecting one of the multiple core networks without knowing identities of the multiple core networks.

6. (Original) The method of Claim 1,

the information about the multiple core networks sharing the common access network includes a number corresponding to the number of multiple core networks sharing the common access network,

each of the multiple core networks associated with a corresponding number within a range specified by the number of multiple core networks sharing the common access network,

attempting to connect to the core network includes transmitting a message specifying the number associated with the core network to which the communication device attempts to connect.

7. (Previously Presented) The method of Claim 1,

the information about the multiple core networks sharing the common access network includes a number corresponding to the number of multiple core networks sharing the common access network,

each of the multiple core networks associated with a corresponding number within a range specified by the number of multiple core networks sharing the common access network,

at least some of the multiple core networks sharing the common access network having corresponding different core network identities,

attempting to connect to the core network includes transmitting a message specifying the number associated with the core network to which the communication device attempts to connect.

8. (Original) The method of Claim 1,

receiving a connection rejection from the core network to which the communication device attempts to connect,

receiving identities for at least some of the multiple core networks sharing the common access network.

9. (Original) The method of Claim 8, receiving an identity of the core network to which the communication device attempts to connect.

10. (Original) The method of Claim 8, attempting to connect to the core network based on a selection of the core network made at one of the communication device and a network entity.

11. (Original) The method of Claim 1,

receiving network system information includes receiving system information in a wireless broadcast message,

the system information including information about multiple core networks sharing a common radio access network without identifying the multiple core networks;

attempting to connect to a core network based on the system information about multiple core networks sharing the common radio access network.

12. (Original) The method of Claim 1, attempting to connect to the core network includes sending a connection request, the connection request including an identity of a home core wireless communications network of the wireless communication device.

13. (Original) The method of Claim 1, attempting to connect to the core network includes sending a connection request, the connection request including identities of at least some preferred core wireless communications networks.

14. (Currently Amended) A method in a communication device, the method comprising:

> receiving system information,

> the system information including pointer information indicating where the communication device may obtain information about multiple core networks sharing a common access network from which the system information was received_,

> the system information including a common identity for the multiple core networks sharing the common access network;

> attempting to connect to one of the multiple core networks using the information about multiple core networks sharing the common access network from which the system information was received upon satisfaction of a condition.

15. (Original) The method of Claim 14, selecting the one of the multiple core networks to which the communication device attempts to connect using the information about multiple core networks sharing the

common access network from which the system information message was received.

16. (Original) The method of Claim 14, obtaining an identity for the core network to which the communication device attempts to connect using the pointer information.

17. (Currently Amended) The method of Claim 14,

[the system information including a common identity for the multiple core networks sharing the common access network,

attempting to connect to one of the multiple core networks sharing the common access network from which the system information was received upon satisfaction of a condition,]

attempting to connect to a core network using the common identity when the condition is not satisfied.

18. (Original) A method in a communication device, the method comprising:

receiving system information,

the system information including a pseudo identity, the pseudo identity common to multiple core networks sharing common access network;

receiving multiple core network identities corresponding to the multiple core networks sharing the common access network in response to attempting to connect to a core network using the pseudo identity.

19. (Previously Presented) A method in a communication device, the method comprising:

receiving first system information from a first access network and receiving second system information from a second access network, the first system information including a first core network identity and information on how many core networks share the first access network, the second system information including a second core network identity,

selecting one of the first and second core network identities based on the number of core networks sharing the first access network.

20. (Original) The method of Claim 19,

weighting the first identity based on the number of core networks sharing the first access network,

weighting the second identity based on the number of core networks sharing the second access network,

selecting the one of the first and second identities based on the weighted first and second identities.

21. (Original) The method of Claim 19, selecting the one of the first and second identities randomly.

22. (Original) The method of Claim 19, selecting the one of the first and second identities only if the first and second access networks satisfy a quality condition.

23. (Original) The method of Claim 19,

the selected one of the first and second core network identities is a pseudo identity common to multiple core networks sharing the corresponding access network,

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after selecting the core network identity, selecting one of the multiple core networks sharing the corresponding access network based on information in the corresponding system information.

24. (Original) The method of Claim 23, selecting the one of the multiple core networks without specifying the identity of the core network selected.

Claims 25-38 (Canceled).